This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

10. (Currently Amended) A system for providing communications over an electric power system having a medium voltage power line, a plurality of customer power lines with each extending to a customer residence, and a first transformer coupling the medium voltage power line to the customer power lines, the system comprising:

an aggregation device forming a portion of a data path between the medium voltage power line and a point of presence;

a first transformer bypass device communicatively coupled to the medium voltage power line and the plurality of customer power lines to provide a data path bypassing the first transformer;

said first transformer bypass device comprising a first modem

communicatively coupled to the plurality of customer power lines and a second

modem communicatively coupled to the medium voltage power line and said first

modem; and

wherein data is communicated between said transformer bypass device and said aggregation device via the medium voltage power line.

11. (Currently Amended) The system of claim 10, wherein said aggregation device comprises:

a modem communicatively coupled to the medium voltage power line; and

an isolation device in communication with said modem and the medium voltage power line.

- 12. (Previously presented) The system of claim 11, wherein said aggregation device further comprises a coupling device forming at least part of a data path between said modem and the medium voltage power line.
- 13. (Previously presented) The system of claim 10, wherein said aggregation device is in communication with the point of presence, at least in part, via an optical fiber.
- 14. (Previously presented) The system of claim 10, wherein said aggregation device is in communication with the point of presence, at least in part, via a wireless link.
 - 15. (Canceled)
- 16. (Currently Amended) The system of claim 45 10, further comprising:
- a first isolation device forming at least part of a data path between said first second modem and the medium voltage power line.

17. (Currently Amended) The system of claim 45 10, further comprising:

a data router in communication with said first modem and said second modem.

18. (Currently Amended) The system of claim 45 10, wherein said aggregation device comprises:

a third modem communicatively coupled to the medium voltage power line and in communication with said second modem; and

a second an isolation device forming at least part of a data path between said third modem and the medium voltage power line.

- 19. (Previously presented) The system of claim 18, wherein said second modem and said third modem communicate telephony data.
- 20. (Previously presented) The system of claim 18, wherein said second modem and said third modem communicate using Orthogonal Frequency Division Multiplexing.
- 21. (Previously presented) The system of claim 10, wherein each of the customer power lines is coupled to a first set of communication devices and each of said communication devices has a unique address.

- 22. (Canceled)
- 23. (Currently Amended) The system of claim 22 17, wherein said data router is configured to prioritize transmission of data received from the communication devices.
- 24. (Currently Amended) The system of claim 22 23, wherein said transformer bypass device communicates telephony data.
- 25. (Currently Amended) The system of claim 22 23, wherein said first modem communicates using Orthogonal Frequency Division Multiplexing.
- 26. (Currently Amended) The system of claim 22 10, wherein said transformer bypass device communicates Internet data.
- 27. (Currently Amended) The system of claim 22 10, wherein said transformer bypass device communicates video data.
- 28. (Currently Amended) The system of claim 45 10, wherein the electric power system comprises a second transformer coupled to a second plurality of customer power lines communicatively coupled to a second set of communication devices, the system further comprising:

a second bypass device at a third location comprising:

a third modem communicatively coupled to the second plurality of customer power lines and in communication with said second set of communication devices;

a fourth modem communicatively coupled to the medium voltage power line; and

a data router in communication with said third modem and said fourth modem.

29. (Previously presented) A method of using a communication system for providing communications for at least one communication device, the system comprised of a bypass device and a point of presence interface device in communication with each other via a medium voltage power line, the bypass device in communication with the communication device via a first low voltage power line, the method comprising:

at the bypass device:

receiving a first data packet signal from the communication device via the first low voltage power line,

demodulating said first data packet signal,

modulating a signal based on said first data packet signal to form a second data packet signal, and

transmitting said second data packet signal through the medium voltage power line; and

at the aggregation device:

receiving said second data packet signal from the medium voltage power line,

demodulating said second data packet signal, and
transmitting a third signal based on said second data packet signal
to a point of presence.

30. (Previously presented) The method of claim 29, further comprising: at the bypass device:

prioritizing said received data signals at the bypass device.

receiving data signals from a plurality of communication devices;

- 31. (Previously presented) The method of claim 29, wherein said first data packet signal comprises telephony data.
- 32. (Previously presented) The method of claim 29, wherein said first data packet signal comprises Internet data.
- 33. (Previously presented) The method of claim 29, wherein said first data packet signal comprises video data.
- 34. (Previously presented) The method of claim 29, wherein said first data packet signal comprises audio data.

35. (Previously presented) The method of claim 29, wherein said audio data comprises music data.

- 36. (Currently amended) A transformer bypass device providing a communication path around a transformer between a medium voltage power line and at least one low voltage power line, comprising:
- a first modem communicatively coupled to the low voltage power line; and a second modem in communication with said first modem and communicatively coupled to the medium voltage power line; and

a data router in communication with said first modem and said second modem.

- 37. (Canceled)
- 38. (Previously presented) The device of claim 36, further comprising an isolation device disposed between said second modern and the medium voltage power line.
- 39. (Previously presented) The device of claim 38, wherein the isolation device is an optical isolation device.

40. (Previously presented) The device of claim 36, wherein said second modern uses Orthogonal Frequency Division Multiplexing.

- 41. (Previously presented) The device of claim 40, wherein said first modem uses Orthogonal Frequency Division Multiplexing.
- 42. (Previously presented) The device of claim 36, wherein said first modem uses Orthogonal Frequency Division Multiplexing.
- 43. (Previously presented) The device of claim 36, wherein said second modern uses Code Division Multiple Access.
- 44. (Previously presented) The device of claim 10, wherein said first modem is communicatively coupled to a plurality of low voltage power lines, and wherein said first modem is in communication with a plurality of communication devices via the plurality of low voltage power lines.
- 45. (Previously presented) The device of claim 44, further comprising a data router configured to prioritize data packets received from the plurality of communication devices for transmission on the medium voltage power line.
- 46. (Previously presented) The device of claim 45, wherein said first modem uses Orthogonal Frequency Division Multiplexing.

47. (Previously presented) A communication device for providing data communications through a medium voltage power line, comprising:

a communication interface providing at least part of a communication path between the medium voltage power line and the Internet;

a coupling device communicatively coupled to the medium voltage power line; and

a modem in communication with said communication interface and in communication with the medium voltage power line via said coupling device.

- 48 (Previously presented) The device of claim 47, wherein said communication interface is a backhaul interface.
- 49. (Previously presented) The device of claim 47, further comprising an isolator disposed between said modem and the medium voltage power line.
- 50. (Previously presented) The device of claim 49, wherein said isolator is disposed between said modem and said coupling device.
- 51. (Previously presented) The bypass device of claim 47, wherein said modem uses Orthogonal Frequency Division Multiplexing.

52. (Previously presented) A method of communicating Internet packet data through a communication system to a communication device, the system comprised of a bypass device and a network interface device communicatively coupled to each other via a medium voltage power line, the bypass device in communication with the communication device via a first low voltage power line, the method comprising:

at the network interface device:

receiving a first packet of Internet data from a network, and
transmitting said received first packet of Internet data through the
medium voltage power line; and

at the bypass device:

receiving said transmitted first packet of Internet data via the medium voltage power line, and

transmitting said first packet Internet of data through the low voltage power line to the communication device.

- 53. (Previously presented) The method of claim 52, further comprising at the communication device receiving said first packet of Internet data.
- 54. (Previously presented) A method of communicating telephony packet data through a communication system to a communication device, the system comprising of a bypass device and a network interface device communicatively coupled to each other via a medium voltage power line, the

bypass device communicatively coupled to the communication device via a first low voltage power line, the method comprising:

at the network interface device:

receiving a first packet of telephony data from a network, and transmitting said received first packet of telephony data through the medium voltage power line; and

at the bypass device:

receiving said transmitted first packet of telephony data on the medium voltage power line, and

transmitting said first packet of telephony data through the low voltage power line to the communication device.

55. (Previously presented) The method of claim 54, further comprising: at the communication device:

receiving said first packet of telephony data.

56. (Previously presented) The method of claim 54, further comprising: at the bypass device:

receiving a second transmitted packet of telephony data via the low voltage power line from the communication device, and

transmitting said second packet of telephony data through the medium voltage power line; and

at the network interface device:

receiving said second packet of telephony data from the medium voltage power line, and

transmitting said second received packet of telephony data through the network.

57. (New) The device of claim 36, wherein the transformer bypass device is in communication with an aggregation device that comprises:

a third modem communicatively coupled to the medium voltage power line and in communication with said second modem of the transformer bypass device; and

a transceiver in communication with said third modem and a point of presence.

- 58. (New) The device of claim 36, wherein said first modem is communicatively coupled to a first set plurality of low voltage power lines and the low voltage customer power lines are coupled to a first set of communication devices and each of said communication devices has a unique address.
- 59. (New) The device of claim 58, wherein said data router is configured to prioritize transmission of data received from the communication devices.

60. (New) The device of claim 36, wherein the transformer bypass device communicates telephony data.

- 61. (New) The device of claim 36, wherein said first modem communicates using Orthogonal Frequency Division Multiplexing.
- 62. (New) The device system of claim 36, wherein the transformer bypass device communicates Internet data.
- 63. (New) The device of claim 36, wherein the transformer bypass device communicates video data.
- 64. (New) The device of claim 36, further comprising a second transformer communicatively coupled to a second set of plurality of low voltage power lines communicatively coupled to a second set of communication devices, the device further comprising:

a second bypass device comprising:

a third modem communicatively coupled to the second set of plurality of customer power lines and in communication with said second set of communication and each of said communication devices has a unique address;

a fourth modem communicatively coupled to the medium voltage power line; and

a data router in communication with said third modem and said fourth modem.